To: Albright, David[Albright.David@epa.gov]
Cc: Harper, Jim[Harper.Jim@epa.gov]
From: Harper, Jim
Sent: Wed 2/4/2015 9:52:14 PM
Subject: RE: UIC Follow-up Qs

There are 65 unique field name.

There are 68 unique injection zones

Below are the counts of injections zones within a field

Field & Zone	Count InjZone # per Field	FieldName	InjectionZone
Any Field	4	1Any Field	"102" Zone - Santa Margarita (Miocene) Formation
Arroyo Grande	2	2Arroyo Grande	"Irwin" Zone - Saugus (Pleistocene) Formation
Asphalto	1	3Asphalto	"Lower Kraft" Zone - Pico (Pliocene) Formation
Bardsdale	1	4Bardsdale	1ST MIOCENE (Upper "B" Sands)
Barham Ranch	1	5Barham Ranch	44 / Doud
Belridge, South	1	6Belridge, South	ANTELOPE SANDS
Brea-Olinda	1	7Brea-Olinda	Aurignac
Buena Vista	2	8Buena Vista	BASAL CHANAC/SANTA MARGARITA
Burrel	2	9Burrel	Basal Sespe - Sespe (Oligocene) Formation
Casmalia	1	10Casmalia	CANTLEBERRY
Cat Canyon	3	11Cat Canyon	CHANAC
Chaffee Canyon	0	12Chaffee Canyon	CHANAC/SANTA MARGARITA
Chico-Martinez	1	13Chico-Martinez	CHANAC-ROUND MOUNTAIN
Coalinga, East, Extension	1	14Coalinga, East, Extension	Dollie Zone
Cymric	3	15Cymric	DOMENGINE
Deer Creek	1	16Deer Creek	ETCHEGOIN
Del Valle	0	17Del Valle	ETCHEGOIN (FAIRHAVEN)
Edison	3	18Edison	ETCHEGOIN/CHANAC
Elk Hills	3	19Elk Hills	ETCHEGOIN/SANTA MARGARITA
Elwood	0	20Elwood	GATCHELL, TEMBLOR, SANTA MARGARITA & ETCHEGOIN
Elwood, South, Offshore	0	21Elwood, South, Offshore	Holser - Modelo (Miocene) Formation
Eureka Canyon	1	22Eureka Canyon	KERN RIVER

Fruitvale	2	23Fruitvale	KERN RIVER,CHANAC,SANTA MARGAR
Helm	4	24Helm	KERN RIVER/CHANAC
Holser	1	25Holser	KERN RIVER/CHANAC/SNTA MARG
Jacalitos	2	26Jacalitos	L. TULARE
Jasmin	1	27Jasmin	Lanigan
Kern Front	2	28Kern Front	Lombardi/Aurignac/Continental
Kern River	8	29Kern River	LOWER TULARE
Kettleman North Dome	2	30Kettleman North Dome	MIOCENE (D-2 ZONE)
Lompoc	2	31Lompoc	MIOCENE/PLIOCENE
Lost Hills	2	32Lost Hills	MONARCH (SPELLACY)
Lost Hills, Northwest	1	33Lost Hills, Northwest	Monterey
Lynch Canyon	2	34Lynch Canyon	Monterey/Knoxville
McCool Ranch	0	35McCool Ranch	OLCESE
McKittrick	2	36McKittrick	OLCESE/FREEMAN-JEWETT/VED/WALK
Midway-Sunset	7	37Midway-Sunset	Old Zone
Monroe Swell	1	38Monroe Swell	PHACOIDES/OCEANIC
Mount Poso	4	39Mount Poso	PLEISTOCENE-PLIOCENE
Mountain View	3	40Mountain View	PLEISTOCENE-PLIOCENE-SANTA MARGARITA
Newhall	1	41Newhall	PLIOCENE
Ojai	0	42Ojai	PLIOCENE, ST. MARGARITA, ZILCH
Oxnard	0	43Oxnard	PLIOCENE-MIOCENE
Placerita	0	44Placerita	Pools "I - V" Modelo (Miocene) Formation
Pleasant Valley	1	45Pleasant Valley	POTTER
Poso Creek	6	46Poso Creek	Puente / Miocene M2B through T (zones 4 through 1)
Raisin City	1	47Raisin City	PYRAMID HILL/VEDDER
Rincon	1	48Rincon	REEF RIDGE (OLIGOCENE)
Riverdale	1	49Riverdale	Rincon-Vaqueros (Miocene) and Upper Sespe (Oligocene)
Rosedale Ranch	1	50Rosedale Ranch	SAN JOAQUIN-ETCHEGOIN
Round Mountain	5	51Round Mountain	Santa Margarita
San Ardo	2	52San Ardo	SANTA MARGARITA/VEDDER
Sansinena	1	53Sansinena	SANTA MARGARITA/VEDDER/FAMOSO
Santa Susana	0	54Santa Susana	Sisquoc
Sespe	2	55Sespe	SPELLACY
Tapo Canyon, South	0	56Tapo Canyon, South	TEMBLOR
Tapo, North	1	57Tapo, North	TRANSITION
Tejon	2	58Tejon	TRANSITION/SANTA MARGARITA

Timber Canyon	0	59Timber Canyon	TULARE
Torrey Canyon	1	60Torrey Canyon	TULARE (UNSATURATED)
Union Avenue	1	61Union Avenue	TULARE (UPPER,AIR SANDS)
Vallecitos	1	62Vallecitos	TULARE/ETCHEGOIN
Van Ness Slough	1	63Van Ness Slough	TULARE/OLIG
Whittier	1	64Whittier	TULARE/POTTER
Yowlumne	1	65Yowlumne	TULARE/SAN JOAQUIN
66		VEDDER	
67		VEDDER/WALKER	
68		WALKER	

From: Albright, David
Sent: Wednesday, February 04, 2015 11:54 AM
To: Harper, Jim
Subject: FW: UIC Follow-up Qs

Hi Jim,

Could you possibly review the attached spreadsheet and give me a count of the number of specific fields/injection zones listed? If I could get a conclusion that says something like X different unique injection zones in Y different oil fields, that would be great. Note that in some cases, the injection zone is blank, so you would just have the field information.

Let me know if you have any questions.

Thanks,
David

From: Habel, Rob@DOC [mailto:Rob.Habel@conservation.ca.gov]
Sent: Thursday, January 22, 2015 5:00 PM
To: Montgomery, Michael
Cc: Albright, David; Dermer, Michele; Bishop, Jonathan@Waterboards; Bohlen, Steven@DOC
Subject: FW: UIC Follow-up Qs

Mike:

Please find the attached Excel file where staff have summarized data in response to your questions. The information is copied below.

Summary	**Count**	**%**
% of Wells that have sub-3000 mg/L TDS	176	33%
% of Wells that have 3000-10000 mg/L TDS	279	52%
% of Wells that have no TDS data (as of 1/22/15 1:30 PM)	48	9%
% of Wells that have TDS >= 10000 mg/L	29	5%
Total	532	100%

There are 43 wells that did not report any injection.

Our database is limited for well depth information. The attached indicates a range of depths based in the Top and Bottom Perf and True Vertical Depth data. These fields in the database have a lot of blanks (no entries).

Please let me know if you have any questions.

Thanks,

Rob